PC-HELPER

For ISA Bus Chassis Unit

FA-PAC(PC)M4D

User's Manual

CONTEC CO.,LTD.

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Product Configuration

FA-PAC(PC)M4D ... 1
HD/FD Power Cable ... 1
User's Guide (this booklet) ... 1

Notes!

- Check the contents to make sure that you have everything listed above. If you do not have all the items, please contact CONTEC.
- Option connection cables are available from CONTEC. Call for more information.
- Since a power supply code is not annexed on this goods, it needs to be prepared by user. Use approved power cord for the connection to the power supply. The socket outlet must be located close to the unit and be easily accessible.
- Main power disconnecting device for the unit is the power supply cord and the main I/O switch. Alternatively an externed disconnecting device may be used.

Introduction

Preface

Thank you very much for purchasing FA-PAC(PC)M4D.

This product is an ISA bus unit for configuring the computer system in combination with the expansion board for the PC/AT or its compatible.

Features

- Steel chassis is used that suits for the applicability at site.
- There are 4 ISA bus slots.
- Cooling fan is built in the front panel of a unit.
- The power supply is built in a unit.

Limited One-Year Warranty

CONTEC Interface boards are warranted by CONTEC to be free from defects in material and workmanship for up to one year from the date of purchase by the original purchaser.

Replacement or repair will be free of charge only when this device is returned to CONTEC freight prepaid with the original invoice.

This warranty is not applicable for scratches or normal wear, but only for the electronic circuitry and original boards. The warranty is not applicable if the device has been tampered with or damaged through abuse, mistreatment, neglect, or unreasonable use, or if the original invoice is not included, in which case repairs will be considered beyond the warranty policy. If replacement with a new device is needed, regular factory prices will be charged, the product will be returned to you COD, and no other written warranty will apply.

The obligation of the warrantor is solely to repair or replace the product. In no event will the warrantor be liable for any incidental or consequential damages due to such defect or consequences that arise from inexperienced usage, misuse, or malfunction of this device.

How to Obtain Service

For replacement or repair, return the device freight prepaid, with a copy of the original invoice. Please obtain a Return Merchandise Authorization Number (RMA) from our Sales Administration Department before returning any product. No product will be accepted without an RMA number.

Cautions

Note the following when handling this unit:

- When you turn off the power switch, wait at least for five seconds to turn it on again.
- Be sure to hold the plug to connect or disconnect the power cable.
- Since the I/O expansion unit is a precision device, do not use or store it in a place affected by impact or vibration. Also do not use or store it in a place exposed to direct sunlight, extremely high humidity, or dust.
- Do not use or store the unit in a place where there is chemical vapor or any contact with chemicals.
- The unit has ventilation slits to prevent temperature rise. Do not block the ventilation slits or use the unit in a poorly ventilated place.
- Do not use the unit near equipment that generates strong magnetic field or noise. Otherwise, the unit or PC may malfunction.
- It is very dangerous to use the unit with water, liquid, or metal inside. Be careful not to let foreign objects come in the unit.
- Do not modify the unit. We shall not be responsible for any loss or damage incurred by modification.
- Turn off the power of the unit when you mount or dismount the interface board into an expansion slot.
- Do not let the sum of the consumption current of the board mounted into an expansion slot exceed the rated current.
- If the unit becomes dirty, wipe it softly with soft cloth soaked in water or neutral detergent. Do not use volatile chemicals such as benzine or thinner because they may change the shape or color.
- This chassis has IP20, if used in the industrial environment higher protection degree may apply, additional protector shall be provided on application.
- The power supply in this chassis is designed for overvoltage category II (2.5kV) if used in industrial environment directly on mains add. Precaution against overvoltage might be necessary.
- If used in industrial environment an external overcurrent protection in both supply lines shall be provided.

Specifications

Dimensions

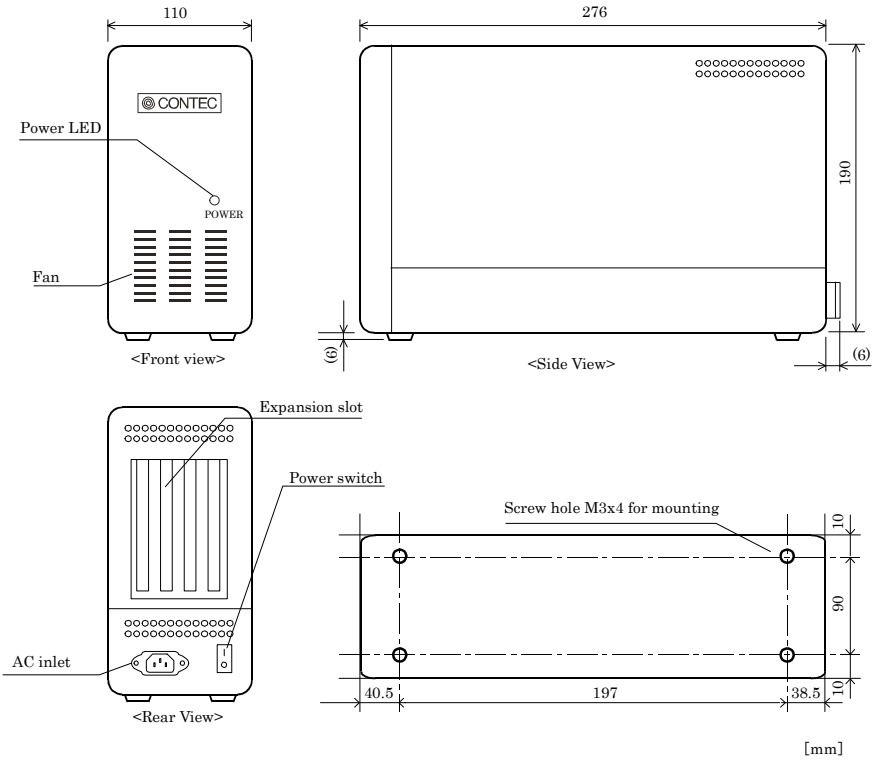


Figure 1. Main Unit Dimensions

Notes!

- Keep the unit at least 20mm away from the wall so as to prevent temperature rise.
- Please mount after the screw which has fixed a rubber foot is removed and a rubber foot is removed, when it is mount.

Configuration

FA-PAC(PC)M4D consists of a mother bus with four slots and a power unit that supplies power to the bus.

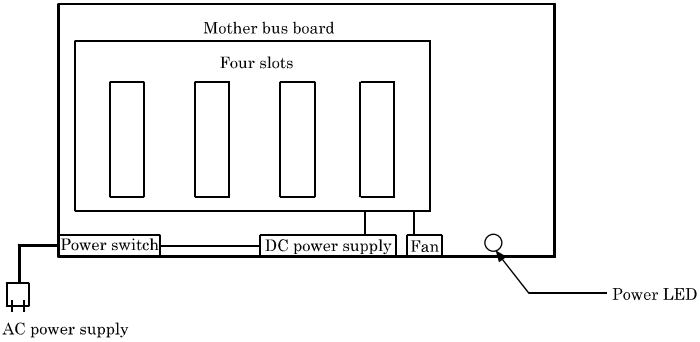


Figure 2. System Block Diagram

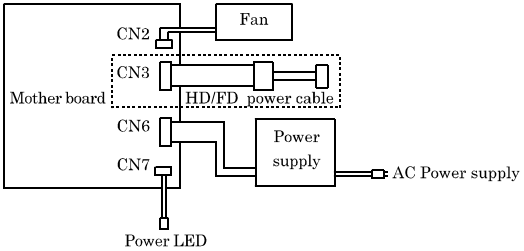


Figure 3. Circuit Diagram

A power connector for HDD and 3.5inch FDD is prepared on FA-PAC(PC)M4D. Connect HD/FD power cable of annexing with CN3 on mother board, and please utilize it in construction of a system.

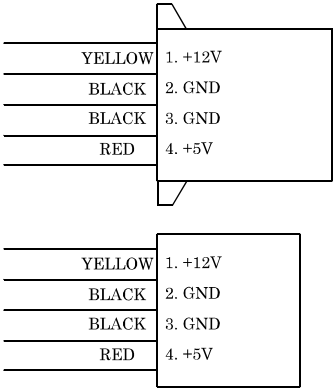


Figure 4. HDD, FDD Power Connectors

Table 1. Specifications of Power Connectors

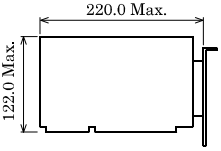
Item	for HDD	for 3.5inch FDD
Use connector model	8981-4P(MOLEX)	171822-4(AMP)
Use contact model	8980-3(MOLEX)	170204-1(AMP)
Current rating	5A	2A
Cnformity connector model	8981-4R-1(MOLEX)	171826-4(AMP)

Specifications

Table 2. Specifications

Item	Specifications		
Number of slots	Four (middle size)		
Board dimensions	220(L) × 122(H) mm Max.		
Maximum total output electric power	0 - 30°C : 50W	30 - 40°C : 40W	40 - 50°C : 30W
Power capacity	DC+5V 8A, DC-5V 0.3A DC+12V 1.5A, DC-12V 1A		DC+5V 6A, DC-5V 0.3A DC+12V 1.5A, DC-12V 1A
Input voltage *1	100-240 VAC		
Input frequency	50 / 60Hz		
Input current	1.5A		
Operating condition	0 - 50°C, 10 - 85% (no condensation)		
Storage condition	0 - 70°C		
External dimensions	110(W) × 190(H) × 276(D) mm		
Weight	4.5kg		

*1 Input voltage range : 85-250VAC



[mm]

Notes!

- Power LED dose not light it and turn on and off in the case of an unmounting condition at an extension board on this unit. This reason is since an output voltage is not output to fixed value by load insufficiency.
- Please avoid to mounting on a slot of a right edge when CPU board is mounting on this unit by the condition which exceeds 40ºC SIMM has shut off wind, and CPU part is filled with heat.
- The internal power supply and cooling fan, FAN filter are consumables, requiring replacement after use for a certain period of time. Although the standards are given below, their lives may be shortened depending on the operating environment. The life span is likely especially to become short extremely in the place which takes influence of trash, metallic powder, the place which is much dust or oil, corrosive gas.
  - Power supply : About 5 years (25ºC, 60%, official environment)
  - Cooling fan : About 5 years (25ºC, 60%, official environment)
  - Fan filter : About 1 years (25ºC, 60%, official environment)

A model of using power supply is LWT50H-522(Nemic Lambda).
Renewal parts are available from CONTEC with regard to other parts. When you require one, contact the selling agent or the CONTEC Information Center.

FA-PAC(PC)M4D

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